

Vermont Mental Health Performance Indicator Project
Agency of Human Services, Department of Health, Division of Mental Health
Weeks Building, 103 South Main Street, Waterbury, VT 05671-1601

MEMORANDUM

TO: Vermont Mental Health Performance Indicator Project
Advisory Group and Interested Parties

FROM: John Pandiani and Monica Simon

DATE: July 23, 2004

RE: Arrest and Incarceration Before and After Adult Mental Health Outpatient Services

This week's PIP presents the results of our earlier analysis¹ of arrest rates for people served by Adult Mental Health Outpatient Programs (AOP) in conjunction with the results of a new analysis of incarceration rates for these same clients. In both cases rates of criminal justice involvement during the year before a treatment year are compared to rates of criminal justice involvement during the year after a treatment year. This analysis was conducted for three treatment years (FY1999, FY2000, and FY2001), and the results were averaged. This replication of the earlier report was requested by Julie Tessler, Executive Director of the Vermont Council of Developmental and Mental Health Services.

Two pages are attached. The first page includes a graph and a table that compare arrest rates for the years before and after each of the three years in which AOP services were received. The second page includes a similar graph and table that compare incarceration rates for the years before and after each of the three years in which AOP services were received. Both of these analyses involve measuring the amount of overlap between a data set that includes basic demographic information about recipients of AOP services and two other data sets. The AOP data were provided by designated community mental health agencies. The arrest data were provided by the Vermont Department of Public Safety. The incarceration data were provided by the Vermont Department of Corrections. Because the mental health and criminal justice data sets used in this analysis do not share unique person identifiers, Probabilistic Population Estimation was used to determine the number of people who appeared in both the mental health database and each of the two criminal justice databases.

The earlier analysis found there was a statistically significant decrease in arrest rates for people served by AOP programs during FY1999 through FY2001. Statewide the post-treatment arrest rate was only 89% of the pre-treatment rate. This decrease was evident for all age groups, except young adults aged 18-34.

Unlike the earlier arrest analysis, the current analysis of incarceration rates found no reduction in rates of incarceration for AOP service recipients. In fact, this analysis found a statistically significant increase in rates of incarceration for the post-treatment period compared to the pre-

treatment period. This increase was evident for the AOP client population as a whole and for clients in the 18-34 age group overall.

Future reports will present the results of similar analyses regarding recipients of substance abuse services and recipients of community treatment for serious mental illness.

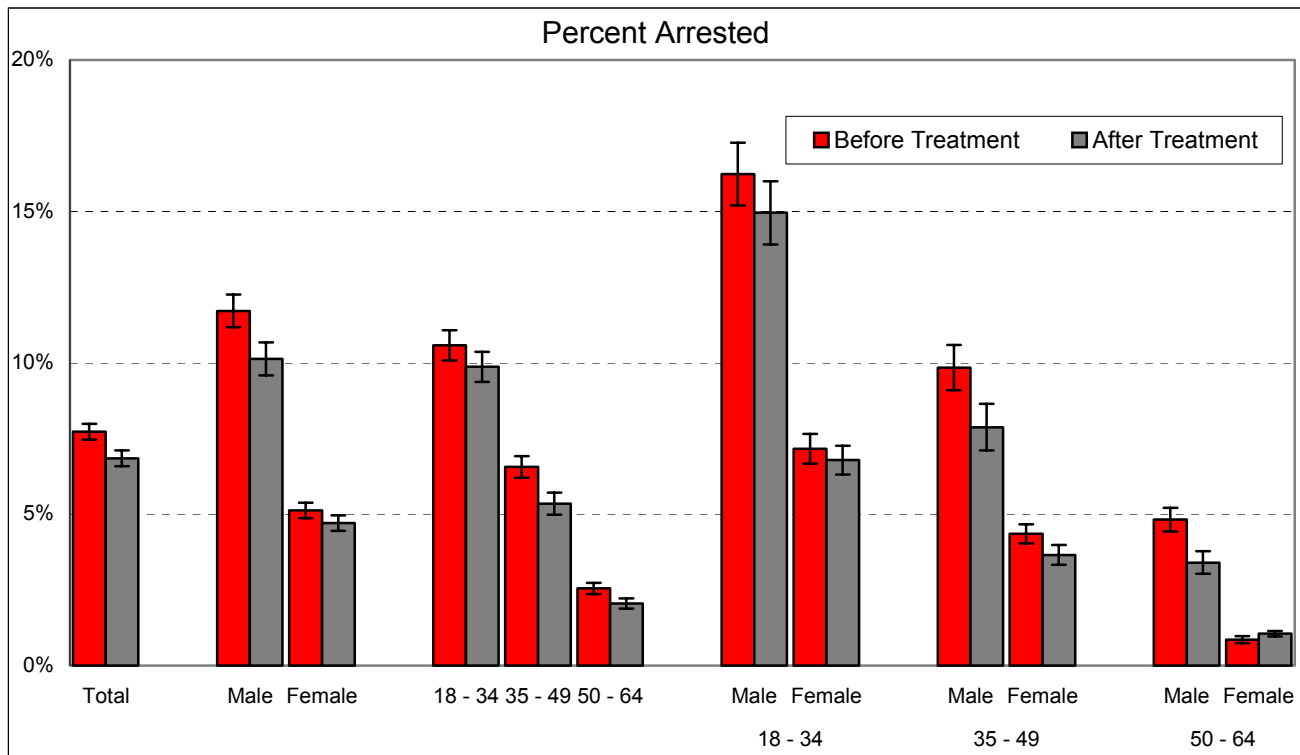
We look forward to your interpretation of these findings, your comments and questions, and your suggestions for further analysis of these data to pip@vdh.state.vt.us or 802-241-2638.

¹Arrests Before and After Adult Mental Health Outpatient Services May 23, 2003
www.ddmhs.state.vt.us/docs/pips/2003/pip052303.pdf

Arrests

Adult Mental Health Outpatient Clients Before and After Treatment

By Age and Gender, Vermont: FY1999 - FY2001



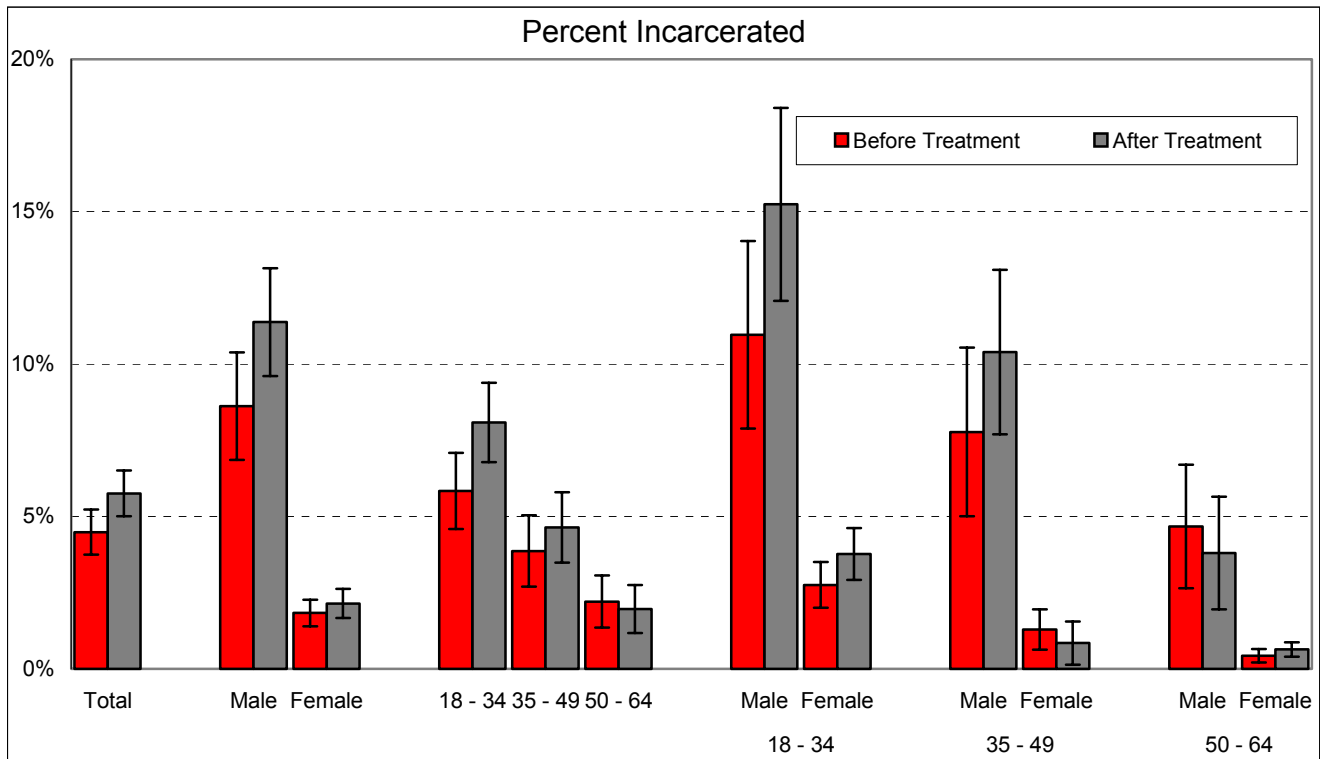
	Average Number Served	Arrested				Change in Arrest Rate
		Before Treatment		After Treatment		
		Number	Percent	Number	Percent	
Total	6,432 ± 11	497 ± 17	7.7% ± 0.3%	440 ± 17	6.8% ± 0.3%	0.89 ± 0.05 *
Male	2,537 ± 6	297 ± 14	11.7% ± 0.5%	257 ± 14	10.1% ± 0.5%	0.86 ± 0.06 *
Female	3,895 ± 9	200 ± 10	5.1% ± 0.3%	183 ± 10	4.7% ± 0.3%	0.92 ± 0.07 *
18 - 34	2,844 ± 8	301 ± 14	10.6% ± 0.5%	281 ± 14	9.9% ± 0.5%	0.93 ± 0.06
35 - 49	2,608 ± 8	171 ± 9	6.6% ± 0.4%	140 ± 10	5.4% ± 0.4%	0.82 ± 0.07 *
50 - 64	980 ± 3	25 ± 2	2.5% ± 0.2%	20 ± 2	2.1% ± 0.2%	0.81 ± 0.09 *
18 - 34 Male	1,072 ± 4	174 ± 11	16.2% ± 1.0%	160 ± 11	15.0% ± 1.0%	0.92 ± 0.09
Female	1,772 ± 7	127 ± 9	7.2% ± 0.5%	120 ± 8	6.8% ± 0.5%	0.95 ± 0.09
35 - 49 Male	1,048 ± 4	103 ± 8	9.8% ± 0.7%	83 ± 8	7.9% ± 0.8%	0.80 ± 0.10 *
Female	1,560 ± 6	68 ± 5	4.4% ± 0.3%	57 ± 5	3.7% ± 0.3%	0.84 ± 0.10 *
50 - 64 Male	417 ± 2	20 ± 2	4.8% ± 0.4%	14 ± 2	3.4% ± 0.4%	0.71 ± 0.10 *
Female	563 ± 3	5 ± 1	0.9% ± 0.1%	6 ± 1	1.1% ± 0.1%	1.22 ± 0.19 *

*Indicates difference is statistically significantly different at the 0.05 level of significance.

Analysis is based on data provided to DDMHS by community mental health centers and the Department of Public Safety.

Because these databases do not share unique person identifiers, Probabilistic Population Estimation was used to determine the number of individuals shared across data sets (with 95% confidence intervals).

**Adult Mental Health Outpatient Clients
Before and After Treatment
By Age and Gender, Vermont: Average FY 1999 - 2001**



	Average Number Served	Incarcerated				Change in Incarceration Rate
		Before Treatment		After Treatment		
		Number	Percent	Number	Percent	
Total	6,365 ± 32	286 ± 47	4.5% ± 0.7%	366 ± 48	5.8% ± 0.8%	1.28 ± 0.27 *
Male	2,490 ± 17	215 ± 44	8.6% ± 1.8%	283 ± 44	11.4% ± 1.8%	1.32 ± 0.34
Female	3,875 ± 27	71 ± 17	1.8% ± 0.4%	83 ± 19	2.1% ± 0.5%	1.17 ± 0.38
18 - 34	2,823 ± 22	165 ± 35	5.8% ± 1.2%	228 ± 37	8.1% ± 1.3%	1.38 ± 0.37 *
35 - 49	2,568 ± 21	99 ± 30	3.9% ± 1.2%	119 ± 30	4.6% ± 1.2%	1.20 ± 0.47
50 - 64	974 ± 8	22 ± 8	2.2% ± 0.9%	19 ± 8	2.0% ± 0.8%	0.89 ± 0.50
18 - 34 Male	1,061 ± 11	116 ± 33	11.0% ± 3.1%	162 ± 34	15.2% ± 3.2%	1.39 ± 0.49
Female	1,762 ± 19	49 ± 13	2.8% ± 0.7%	66 ± 15	3.8% ± 0.8%	1.37 ± 0.48
35 - 49 Male	1,020 ± 12	79 ± 28	7.8% ± 2.8%	106 ± 28	10.4% ± 2.7%	1.34 ± 0.59
Female	1,548 ± 18	20 ± 10	1.3% ± 0.7%	13 ± 11	0.8% ± 0.7%	0.65 ± 0.64
50 - 64 Male	409 ± 5	19 ± 8	4.7% ± 2.0%	16 ± 8	3.8% ± 1.9%	0.81 ± 0.53
Female	565 ± 7	2 ± 1	0.4% ± 0.2%	4 ± 1	0.6% ± 0.2%	1.48 ± 0.95

*Indicates difference is statistically significantly different at the 0.05 level of significance.

Analysis is based on data provided to DDMHS by community mental health centers and the Department of Corrections.

Because these databases do not share unique person identifiers, Probabilistic Population Estimation was used to determine the number of individuals shared across data sets (with 95% confidence intervals).